

# BauderTHERMOPLAN T18

## Technical data sheet

Type of application	<b>FPO/TPO waterproofing membrane for loose laying, mechanically fixed or under ballast</b>	
Surface	Top	<b>pearl white similar RAL 1013</b>
	Bottom	<b>Black</b>
Reinforcement	Type	<b>Synthetic PES fibre fabric</b>
Article number	<b>6618 0150</b>	

Characteristic	Test method	Value	
Visible defects	EN 1850-2	no visible defects	
Length	EN 1848-2	20 m (-0/+5%)	
Width	EN 1848-2	1,5 m (-0,5/+1 %)	
Straightness	EN 1848-2	< 50 mm	
Flatness	EN 1848-2	< 10 mm	
Mass per unit area	EN 1849-2	2,2 kg/m <sup>2</sup> (-5/+10%)	
Effective thickness	EN 1849-2	1,8 mm (-5/+10%)	
Water tightness	EN 1928 Method B	passed	
External fire performance	CEN/TS 1187	npd	
Reaction to fire	EN 13501-1	class E according EN 13501-1	
Joint peel resistance	EN 12316-2	≥ 300 N	
Joint shear resistance	EN 12317-2	≥ 500 N	
Tensile force	md	EN 12311-2 A	≥ 1200N/50mm
	cd	EN 12311-2 A	≥ 1200N/50mm
Elongation at maximum tensile force	md	EN 12311-2 A	≥ 19 %
	cd	EN 12311-2 A	≥ 19 %
Resistance to impact	hard surface	EN 12691	> 900mm
	soft surface	EN 12691	> 1250 mm
Resistance to static load	hard surface	EN 12730	≥ 20 kg
	soft surface	EN 12730	≥ 20 kg
Tear resistance	EN 12310-2	> 350 N	
Resistance to root penetration	EN 13948	FLL passed	
Dimensional stability	EN 1107-2	< 0,3 %	
Foldability at low temperature	EN 495-5	≤ -30 °C	
UV exposure (> 5000 h)	EN 1297	passed	
Durability Watertightness after artificial ageing	EN 1296 acc. EN 1928 (Method B 24h/60kpa)	passed	
Durability Watertightness after exposure to chemicals	EN 1847 acc. EN 1928 (Method B 24h/60kpa)	passed	
Hail resistance	hard surface	EN 13583	28 m/s
	soft surface	EN 13583	40 m/s
Water vapour properties <sup>1)</sup>	EN 1931	200000 (±30%)	
Exposure to bitumen	EN 1548	passed	
Nail Shaft test	EN 12310-1	> 600 N	

<sup>1)</sup>The characteristic meant is the moisture resistance factor  $\mu$ .



Identification number of the certification body: 0800

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CPR – 51213; EN 13956 / CPR – 51214; EN 13967

Unique Code: BauderTHERMOPLAN T18 - 03